IECRA /	50DVD Product Specificat	ions
	750DVD: PA1259U-T2D	
	5.1 Billion Bytes = 4.77 GB	
PROCESSOR		
Intel Pentium ®233Mhz (1.8v/2.5v)	Yes: with MMX support	
External data bus width	64 bit	
External data/address bus speed	66 MHz	
Integrated Coprocessor	Yes	
Processor Cache (L1)	32KB: (16KB code; 16KB data)	
Standards	ACPI v. 1.0 ready	
LEVEL 2 (L2) CACHE	Yes: 512KB	
Data Bus Width/ Data Bus Speed	64 bit/66 MHz	
DATA RAM:		
2 Mbit Pipelined Burst Synchronous SRAM	(64K x 32bit, 2.5V/3.3V) x 2 Access T	ime: 8ns
MEMORY: 64 Mbit EDO DRAM, 3.3V		
Standard/ Maximum	64MB (32 MB on board + 32MB in mem	ory slot)
Maximum	160MB	
Speed	60ns	
Hyper Page mode memory access	Yes	
Data width/ Data Bus speed	64 bit/66 MHz	
BIOS	Yes: (512KB 4Mbit FLASH EEPROM, 3	5.3V)
Standards supported	APM v.1.2, PnP v.1.0A, VESA 2.0, DDC	2B, DPMS, ACPI v.1.0
SYSTEM ARCHITECTURE	Connectin	g Devices
PCI BUS (v.2.1): (32-bit, 33 MHz)	PC Card Slots, Expansion Bus, Graphics	
, , , , , , , , , , , , , , , , , , , ,	Video Capture controller, DVD-ROM, D	
ISA BUS: 16-bit, 8 MHz	BIOS ROM, KBC, FDD, Sound chip	,
STORAGE		
Removable HDD (2.5" Enhanced IDE)	5.1 Billion Bytes = 4.77 GB (Read/Write	: 12msec/13msec), Buffer: 512KB
SELECT BAY DEVICES	DESCRIPTION	WEIGHT
Second Battery	Optional: Part# PA2446U	<u></u>
Battery Type	Li-Ion (10.8V, 3600mAH)	1.15 lbs.
Modular FDD (3.5" 1.44MB)	Included/Swappable with CD-ROM	
FDD Dimensions	4.57"L x 3.78"W x .5"H	.60 lbs.
Simultaneous FDD & CD-ROM Support	Yes: External FDD adapter included	
FDD Adapter Dimensions	7.0"L x 5.5"W	.25 lbs.
Modular HDD (2.5" Enhanced IDE)	Optional/For use in SelectBay only: Par	
Capacity	4.1 billion bytes = 3.82GB (Read/Write:	
Weight	.55 lbs.	
Modular DVD-ROM: Toshiba SD-C2002	Installed/ For use in SelectBay only	
Dimensions/Weight	.66"H x 5.0"W x 5.25"D/84 lbs	
Interface	.ATAPI (Enhanced IDE)	
Average Power Consumption	3.0 W	
Constant Angular Velocity (CAV)	Yes	
Performance	DVD Media	CD-ROM Media
Access Speed	2X	16X
Average Random Seek Time	110 ms	110 ms
Average Random Access Time	180 ms	120 ms
Sustained Data Transfer rate	2,700 KB/sec	2,400 KB/sec
Capacity	Single-sided	Dual-sided
Single-layered	4.7 GB	9.4 GB
Dual-layered	8.5 GB	9.4 GB 17 GB
MPEGII video support	Yes: (w/Windows 95 only)	17 00
= =	Yes: (w/Windows 95 only)	
Dolby™Digital Surround Sound AC-3	· · · · · · · · · · · · · · · · · · ·	
DVD Compatibility	DVD-ROM only (no DVD-RAM)	CD I Deidas (Photo CD)
CD-ROM Compatibility	Red Book, Yellow Book, CD-ROM XA, CD-I Bridge (Photo-CD) CD-I, CD-I Ready, CD-G, Multisession (Photo-CD, CD-Extra), CD-R, CD-RW	

		750DVD: PA1259U-T2D 5.1 Billion Bytes = 4.77 GB		
DISPLAY		3.1 Billion Bytes = 4.77 GB		
Type		13.3"Diagonal TFT Active Matrix		
Dot Pitch		.26mm x .26mm		
Contrast Ratio		100:1 (min)		
VIDEO		100.1 (IIIII)		
Memory: 16Mbit SGRAM, 3	3 3 V	4 MB		
Access Speed).5 v	83 MHz with Hyper-page mode support		
Data Bus Width/Clock Speed		64-bit/33 Mhz		
Graphic Controller	Speed	04-010/33 WIIIZ		
PCI Bus Architecture v	/burst mode	Vos: 32 bit 33 MHz		
	v/burst mode	Yes: 32-bit, 33 MHz		
Standards supported		DPMS, PnP v.1.0A, VESA 2.0		
DuoView TM Device support ²		Allows display of different images (or the same image) on following screen		
Control Hon Chin		combinations: notebook/external monitor; notebook/TV; external monitor/TV		
Controller Chip		S3 Virge MX 3D (= 86C260)		
64-bit BitBLT Engir		Yes		
2D Supported Featur		BitBLT, H/W Cursor, DirectDraw		
3D Supported Featur	res			
		Fogging		
		Flat shading, Gouraud shading		
Rendering		Bilinear/Trilinear texture mapping , Anti-aliasing, MIP mapping, Z-buffering		
Direct3D suppo	ort	Yes		
OpenGL		Yes		
Digital Video Accelerator				
YUV Color Space Con	version	Off-loads conversion from CPU for higher performance full motion video		
		without compromising picture quality	or frame rate.	
Scaling/ Interpolation		Yes: vertical & horizontal		
Zoomed Video Port Support		Yes: vertical & horizontal		
DirectVideo support		Yes:w/Game SDK driver fr/Microsoft		
DirectMPEG		Yes		
TV Encoder support		Yes: NTSC/PAL video out, and S-Vid	deo out with flicker reducing filter	
INTERNAL VIDEO SUPP	ORT	Colors	Refresh Rate (Non-Interlaced)	
Smaller Image	640 x 480	24-bit (16.7M)	N/A	
Smaller Image	800 x 600	24-bit (16.7M)	N/A	
Full Screen	1024 x 768	24-bit (16.7M)	N/A	
Virtual Display Mode	1280 x 1024	16-bit (64K)	N/A	
Virtual Display Mode	1600 x 1200	8-bit (256)	N/A	
EXTERNAL VIDEO SUP	PORT (CRT)	Colors	Refresh Rate (Non-Interlaced)	
	640 x 480	24-bit (16.7M)	85 Hz	
	800 x 600	24-bit (16.7M)	85 Hz	
	1024 x 768	24-bit (16.7M)	85 Hz	
	1280 x 1024	16-bit (64K)	75 Hz	
	1600 x 1024	8-bit (256)	42 Hz (Interlaced)	
VIDEO CAPTURE SUPP		Colors	Fps (w/ZV Port/.AVI file)	
THE CALLUME BUILT	160 x 120	Up to 16.7M	30	
	320 x 240	Up to 16.7M	15	
	640 x 480	Up to 16.7M	3	
Input cources	040 X 400	ZV Port-enabled PC Card or ZV Port		
Input sources				
**		PCI bus (for ProShare/Video conferencing) and ZV port (normal capture) .BMP, .JPEG, .GIF (for still images), .AVI (for video)		
Supported file formats	to be at		.AvI (IOF vide0)	
Maximum # of Still images		12	and HDD	
Maximum time of video rec	oranig	Varies by free space of main memory	aliu ПUU	

^{2.} Future operating systems may support simultaneous display of different resolutions on mutiple devices.

TECRA 750DVD Product Specifications 750DVD: PA1259U-T2D 5.1 Billion Bytes = 4.77 GB **CAMERA** Mount External (hook on right edge of display panel) Type 1/4-inch CCD Effective pixels 640 x 480 (= 307.2K) Lens (Manual Focus) F2.8, f = 4.6 mmFocusing range > 10 cm, by manual focus Viewing angle of Center Horizontal: ±22.5 degrees (45° total); Vertical: ±16.9 degrees (33.8° total) Minimum illumination Tilting angle -50 to +50 degrees -45 to +225 degrees (horizontal) Panning angle Interface connector Digital/26 pin proprietary connectory Interface cable length 50cm Automatic Light Control (ALC) Yes: AGC (0 db~ +12db); ELC ($1/60 \sim 1/10,000 \text{ sec}$) White Balance ATW Yes Dimensions 5.63"L x 1.14"W x .79"D Weight .25 lbs. SOUND SYSTEM Chipsets: Yamaha 3D sound effect-enabled OPL3-SA3 and Wavetable-enabled OPL4-ML2 Functions supported Dolby™Digital Surround Sound AC-3 Yes: (w/Windows 95 only) Sound formats supported: SoundBlaster Pro™ v.3.01, MIDI, Windows Sound System v.2.0 16 bit stereo audio playback/record Yes: w/48kHz maximum sampling rate Full duplex function Yes: including simultaneous playback and record

Mixing CD-ROM audio, Zoomed Video audio (stereo), CardBus audio (monaural)

DirectSound support Yes: with Windows 95 Game SDK driver from Microsoft

Volume control Yes

Speaker system: Two top-mounted stereo speakers (28mm, 16 Ω)

INTERNAL MODEM (All models) K56 Flex Upgradeable with DSVD, V.34 and V.80 support for Video Conferencing

DAA support US/Canada and Euro/Australia

Data support

Protocols supported Bell-103/212A, CCITT-V.21/V.22, V.23, V.22bis, V.32, V.32bis, V.34

Error correction MNP 1-4

Data compression MNP 5 for upto 2X data compression, CCITT V.42 bis for upto 4X data compression

Fax support Fax class 1, Class 1 ECM
Protocols supported V.21 ch2, V.27 ter, V.29, V.17

Cellular support US Cellular support under Windows 95 only

Protocols supported (Phone) Bell-103/212A, CCITT-V.21/V.22, V.23, V.22bis, V.32, V.32bis, V.34

Protocols supported (Fax) V.21 ch2, V.27 ter, V.29, V.17
Fax class Fax class 1, Class 1 ECM

Phones supported³ Motorola Micro TAC (DPC550, Alpha, Lite, and Ultralite) and Motorola Elite *only*

Telephony Functions (Windows 95 only)

Standard software Ring Zero RingCentral telephony software

Speaker phone, Telephony Answering Machine, Ring Wake-up Resume

Incoming Call Discrimination, Caller ID

DSVD protocols supported ITU-T **V.70**, V.75, V.76, G.729, V.80, V.25terA, V.34, V.8bis

Video Conferencing (Windows 95 only)

Data sharing support

Standard software Intel Video Phone with Proshare Technology 2.0 and Microsoft Netmeeting 2.0 Protocols supported ITU-T H.323 (Internet video conferencing); H.324 (POTS video conferencing);

H.245; H.223; G.723; H.263; **V.80**; V.25terA; **V.34**; V.8bis T.120; T.121; T.122; T.123; T.124; T.125; T.126; T.127

	750DVD: PA1259U-T2D		
	5.1 Billion Bytes = 4.77 GB		
EXPANSION SLOTS	LOCATION		
Two Stacked PC Card Slot ⁴	Yes: Left side (CardBus & ZV Card Ready)		
32-bit, 3.3V PC CardBus Support	Yes		
16-bit, 5.0V PC Card Support	Yes		
Two Internal Memory Slots	Yes: Below left-half of the palm rest (above main HDD)		
EXPANSION PORTS	LOCATION		
One 9-Pin Serial (16550 UART compliant)	Yes: Rear of unit		
One 15-Pin RGB (SVGA video)	Yes: Rear of unit		
One Expansion Bus	Yes: Rear of unit (for use with Docking Station or Port Replicator)		
One 25-Pin Parallel (8 bit ECP)	Yes: Rear of unit		
One DC IN port	Yes: Rear of unit		
Noteworthy security lock port	Yes: Rear of unit		
Microphone (3.5mm mini jack, monoaural)	Yes: Rear of unit		
Headphone (3.5mm mini jack, stereo, 16Ω min)	Yes: Rear of unit (stereo, common with Headphone/AC3 digital)		
Line-in (3.5mm mini jack, stereo, 2V rms)	Yes: Rear of unit		
Line-out (3.5mm mini jack, stereo, 0.7V rms)	Yes: Rear of unit		
Dolby AC3 Digital	Yes: Rear of unit (5.1 channel, common with Headphone/AC3 digital)		
One (PS/2) 101 Keyboard/Mouse port	Yes: Rear of unit (supports "Y"Connector)		
One S-Video out port	Yes: Rear of unit		
One NTSC/PAL out port	Yes: Rear of unit		
Two Fast Infrared ports (front and back)	Yes: Rear of unit (<i>IrDA 1.1:4 Mbps compatible</i>)		
One External Floppy Drive port	Yes: Left side		
Two Universal Serial Bus (USB) ports	Yes: Left side (Supports 127devices. Throughput Rate: 12Mbits/sec.)		
One Power switch	Yes: Left side		
One Reset Button	Yes: Left side		
Noteworthy security lock port	Yes: Left side (Use when docked)		
One RJ-11 port for internal modem (supplied)	Yes: Right side		
One Cellular Modem port	Yes: Right side		
One External Camera port	Yes: Right side (Proprietary 26-pin connector)		
KEYBOARD			
84keys, 3mm Travel	Yes: 12 dedicated function keys; Cursor control (8 Keys, Inverted "T")		
Windows 95 support	Yes		
Keyboard tilt	Yes		
Numeric keypad (Integrated Overlay)	Yes		
Integrated Pointing Device	AccuPoint™		
Enhanced Port Replicator II (Optional)	Part# PA2716U		
Two Type III CardBus ready PC Card slots	Yes: each slot supports one card		
Supported Interfaces	Serial, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA monitor, FDD port,		
	lock slot , joystick/MIDI, audio line-in, line-out, headphone, microphone		
Desk Station V Plus (Optional)	Part# PA2710U		
Supported Interfaces	(2) Full length 32-bit PCI/16-bit ISA slots; (1) Half Length 32-bit PCI slot;		
-	(2) Type III PC Card slots; (1) SCSI II; (1) 5.25" half height drive bay;		
	(1) Select Bay for Modular FDD or CD-ROM		
Ports	Serial, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA monitor, FDD port,		
	lock slot , joystick/MIDI, audio line-in, line-out, headphone, microphone		
Other features	Designed for Windows 95 and PNP; Hot Docking Support		
	IWMICROTAC or NWELITE 4 Slot supports two Type II PC Cards or one Type III PC Card		

^{3.} Requires the purchase of appropriate cellular cable: NWMICROTAC or NWELITE. 4. Slot supports two Type II PC Cards or one Type III PC Card.

-	750DVD: PA1259U-T2D)	
	5.1 Billion Bytes = 4.77 GB		
POWER			
60W Autosensing External AC Adapter	5.51"L x 2.95"W x .98"	90 lbs. (Part#:NW2444U)	
Input (Voltage/Frequency)	100-240V; 50-60Hz		
Output (Voltage/Amps)	15 VDC; 4.0A (max)		
Battery Type: Li-Ion (3.6V 1200mAh, 12 cells)	Yes: Part# PA2445UR (2.83"W x 1.14"H x 6.61"L) 1.1 lbs.		
Battery Life	One battery	Two batteries	
Full Power mode	3.5 hrs.	7 hrs.	
Low Power mode	7 hrs.	8.5 hrs.	
Recharge Time: Main Battery ⁴	Notebook alone	Docked In Port Replicator	Docked In Desk Station
(Computer Off/On)	3.8- 4.0 hrs./5-9 hrs.	3.8 - 4.0 hrs./5-12 hrs.	4-5 hrs./ 6-12 hrs.
Power Savings	MaxTime®; APM v.1.2 BIOS support		
DIMENSIONS	11.95"W x 9.45"D x 2.13"H		
WEIGHT (includes 1.1 lbs. battery) ⁵	8.0 lbs. (with FDD installed); 8.3 lbs. (with DVD-ROM installed)		

BUNDLED SOFTWARE: Windows 95; RingZero RingCentral v.4.xx Telephony application; Toshiba VidCap software;

Puma Intellisync 97; Sarnoff Video Brush scanning software; Microsoft Netmeeting 2.0; Intel Video Phone w/Proshare Technology 2.0

Included on CD: Internet Explorer 4.0; LANDesk Client Manager 3.0, SystemSoft CardWorks; Intel Video Interactive (32-bit,v.4.0) Toshiba Fn-esse utility; Online manual. Units ship with Recovery CD, Windows95 Companion disk, and Application CD.

SECURITY	Lock slot, Password:power-on, supervisor, HDD access, Docking station eject		
WARRANTY	3 YR Parts & Labor (battery 1 year)		
ENVIRONMENTAL SPECIFICATIONS	Operating	Non-operating	
Temperature:	41°F (5°C) to 95°F (35°C)	-4° F (-20°C) to 149°F (65°C)	
Thermal Gradient 20° C per hour (max.)			
Relative Humidity:	20% to 80% non-condensing	10% to 90% non-condensing	
Altitude:	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)	
Shock:	10G (11ms); 1.5G w/CD-ROM installed	60G (11ms); 50G w/CD-ROM installed	
Vibration:	0.5G; 0.25G (5~500Hz) w/CD-ROM	1G; 1G (5~500Hz) w/CD-ROM	

^{4.} Recharge time may be longer than indicated, depending on condition of battery, and consumption of power for function performed during recharge: eg. use of LCD, HDD/CD-ROM, sound and modem, CardBus card in Port Replicator or PCI card in Desk Station V Plus. 5. Optional 2nd battery PA2446UR weights 1.15 lbs.